The

National Geographic Magazine

AN ILLUSTRATED MONTHLY



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CONTENTS

THE REDWOOD FORUST OF THE PARIFIC COAST.	Latin
Water map and Mastachina HENRY GANRES	ET, 145
IN COMMATIC ASSISTS INTERNBUND ON THE PACIFIC SLOPES	10. 100
HEOTERSON D C MARSH - W J McO:	en ill
THE ARDA OF THE PRINTPLINES. OFOROU DAVIDED	DS 182
THE MACHINET AMPRICA OF TWOMBILE	183
MUNITED LANDA	124

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No. 5.

THE REDWOOD FOREST OF THE PACIFIC COAST

By HENRY GARNETT,

Redwood is so called because of its color, which, when frashly cut, is a bright, though not deep, red, changing to a brown-red when thereughly sessoned. The wood is soft, with a rather coarse, straight grain. It is easy to work, quite as much so as our sessons white pine. It contains practically no resis, but a large amount of water, which makes the green wood so exceedingly heavy that often the lower log of a tree will sink in water.

Botanically, the redwood (Sepania imperience) is a brother of the big trees (Sepana pignotea of the Sierra Nevada the two species being the sole living representatives of the genus Sepana. It is a country of the redard, which it resembles in many respects, in habit and appearance, in bark and foliage. It is an immense tree, larger than the fir of Wachington, but not as large as the life Tree of the Sierra. If often attains a height exceeding 200 foot and a butt slameter of 15 feet. It enrely branches low, but almost invariably shows a straight. Substituted trunk perfectly symmetrical rising with a slight laper for 20 feet to the lower branches. The bark is covered with their flakes of epidermis, lying parallel to the atom. The foliage is duit green in recording not cover.

The habitat of the redwood is poesdiar. It is found only in a narrow strip, closely brigging the Pacific rount stretching from the southern boundary of Oregon or just needs the boundary for there are perkaps LODF acres of redwood in Oregon—south-



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ward through morthern California, nearly to the lay of San Francisco. Indeed, a few scattering groves are found south of the bay, in Santa Crus county and other localities, and there are evidences that not many centures ago it extended over the Coast ranges as for south as Los Argeles; but in all this region it is now practically extend. The densest forests are found in Humbobit county. In Doi Norte county, on the north, the area is comparatively small and the forests somewhat less dense; while in Mondocino ecunic, on the south, where the redwood area is even greater than in Humboldt, the forests are not as detuc, and in Sonoun county, still farther south, the timber becomes more scattering, thinning out into groves. Its habitat he a region of heavy minfall, which comes in the winter, and of fees which sweep in from the Pacific at all times of the year. It is a very moist, temperate region, both of which corelitions appear to be emental to the growth of the species. On the north its range is probably limited by temperature, since the humblity is even greater in Oregon and Washington than in California. On the south it is probably limited by the diminishing amount of hu-



happens duties logge, salters iron; sances, or harmed

rather are not found elsewhere, and, as will be seen later do not be present fully most the needs of the species, even in its present bubitat.

This is probably the densest forest on earth, as measured by the amount of merchantable timber—that is, of timber suitable for the saw mill—contained per sore. It is not the size of the trees alone which produces this, although they are exceptionally large, even in this state of large things, but it is the great number of trees on each acre, the closeness of their stated. In a redswood forest the sun never shines—it is always twilight. You are, as it were, under the roof of a vast templa, a roof of foliage, supported by great tree columns.

to order to obtain a conception of the enormous stand of tenher in the redwood strip, let use commence with some familiar examples for comparison.

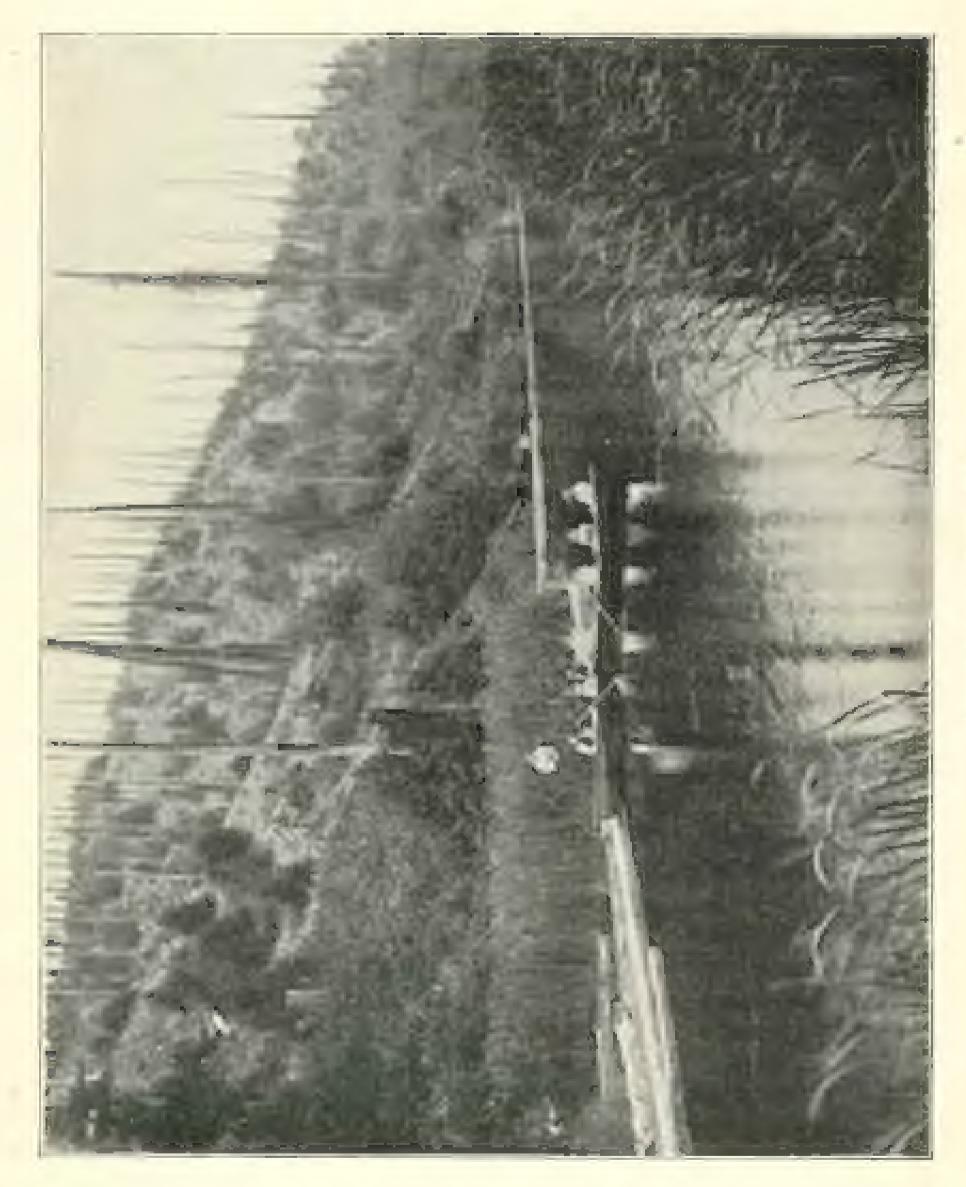
The great pinenes of the southern states contain, on an average, about 5,000 feet, board measure, of standing timber per nore. Of white pine the heaviest county in Minnesota is estimated to contain an average of a DO feet, while others, regarded as forested, contain 1,500 to 2,000 feet; and a tract containing 10,000 hot per sere is regarded as heavily forested. Contrast these flaures with the following. The average stand of redwood upon 173,000 neres in Membeeno county is 44,000 feet per nere. There is here nearly nine times as much brober on no acre as in the southern piperies, yet even this is exceeded in Humbolds county. Upon 181,443 acres in this county the average stand is SAPER foot per acre, nearly seventeen times as great as in the southern states. The Jumber companies around Eureka, Callformis, the principal center of the redwood industry, have reals hed, they commenced operations, an average of between 75, without 100,000 feet per sere, and one of these sompanies has for ten years mit an average of \$4,000 feet per sere of redwood alone, besides fir and spruce, which would increase the are unt to nearly 100,00 ricet. These mattigures are not in any way estimates, but the actual products of for mills. The disproportion is even greater than appears here, for the standard for lumber used in the redwood country is much higher than in the east, and consequently the estimates of the amount of timber are correspondingly less. For instance, whereas in the east loge

eight torbes in diameter are out and sent to the mill, and knotty staff is saved, on the Pacific coast nothing less than 16 inches in diameter is sawed, and clear fumber only. If the redwood were used as economically as the southern pine, these estimates of its stand might easily be 50 per coal greater. The forests of Washington and Deigon are very heavy, but they be no makes equal the redwoods in density. The most heavily forested county in Washington, Skagit, contains an average on its forest land of but 25,000 feet per aire, and in Oregon the stand is no greater, the course, there are in these states individual acres, and even square tailes, which are vastly more heavily forested; but sonly, are there in the redwood step. On Madriver, mar faireka, a bomber company is at work in a tract of several square miles which actually cuts 150,000 feet per acre.

There is on record a single sore near fineberville, which vielled in the mill 1,431,530 feet in lumber. There was sufficient lumber on this acre to have covered it with a solid block of frame dwellings ten stories high. A redwood tree of average size, say five foot in diameter at the batt, furnishes enough lumber to build an ordinary cottage, and many trees have been cut each of which would suffice for half a dozen such houses. One tree is on record as having scaled 65 500 feet. A tree was felled in a lumber camp near Euroka in 1808 which was 10 feet in diameter inside the back, and which scaled over 100,000 feet and there is standing in the same neighborhood a tree 22 feet in diameter which scales nearly twice as much. Such examples of wonderful yould might be maltiplied to any extent, but this would merely involve resultation.

The redwood strip is compassed of the westernmost of the Construction, with the valleys between them. It is narrownt the north, in Del Norte countr, where it is not occurred to six unles in breadth. It widens in Humbooldt country to an average of 10 to 12 miles; then south of East river in the senthern part of the country, its controubty is broken for a few ordes. At the north edge of Mendocino country it commences again, and in the central part of that country attains it greatest breadth, of perhaps 20 miles. Forther south, especially in Southan country the redwords scatter north more scattering southward. The trees, however, remain as large as elsewhere.

The casest and finest growth is in Hamboldt county near the northern and. That portion in Memberson and Sonoma counties



to there, as they bear helicare down. The word is, however, of shore great the classes are demonstrated and perhaps rapped above that is. The case, however, is a location of a location of a covery above in the transverse of the facts. On the case the transverse are location of the facts. On the case we go the great of the one great transverse of an are for forms of the morthern part in of he but a reserver of an are for forms of the morthern part in of he but are several, the root powers of maximum.

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Many returnates a the source of standing redwood have been to be, with results widely at variance with one another. Those or the belt line long been presty were known, and there is one on the estimated stand parmine. The first estimate that I and was made in 1981 by John 1to over, of is make, who must be extended to the same time Mr. L. A. encountries of the dedwood Manu network. Association of Sam Innoverse, made the estimate particles. In 1885 Mr. Human Masson in processor, made the estimate particles. In 1885 Mr. Human Masson in processor, to the report of the call form a state Power of Franciscy, an estimate of \$1.500 minutes now in 1860 to 1. A. C. Tabletta secretary of the Human masson in 1860 to 1. A. C. Tabletta secretary of the Human food it had a form a state Power Awar auton

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By J. B. Income

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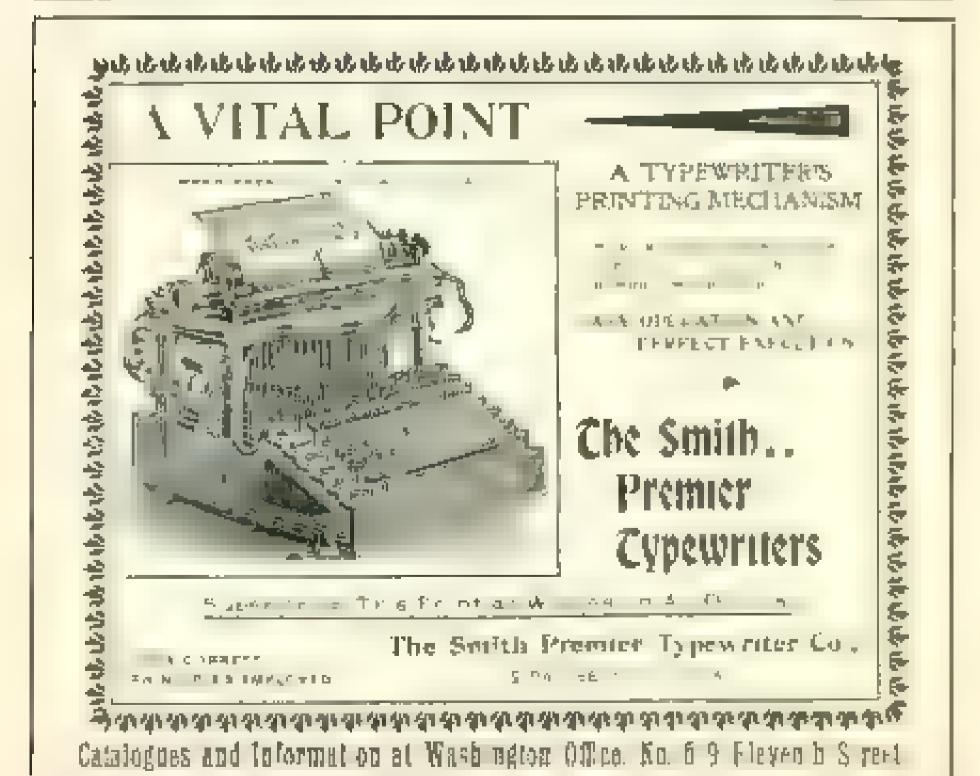


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